

Preparation of B-29 Lys modified insulin using proinsulins

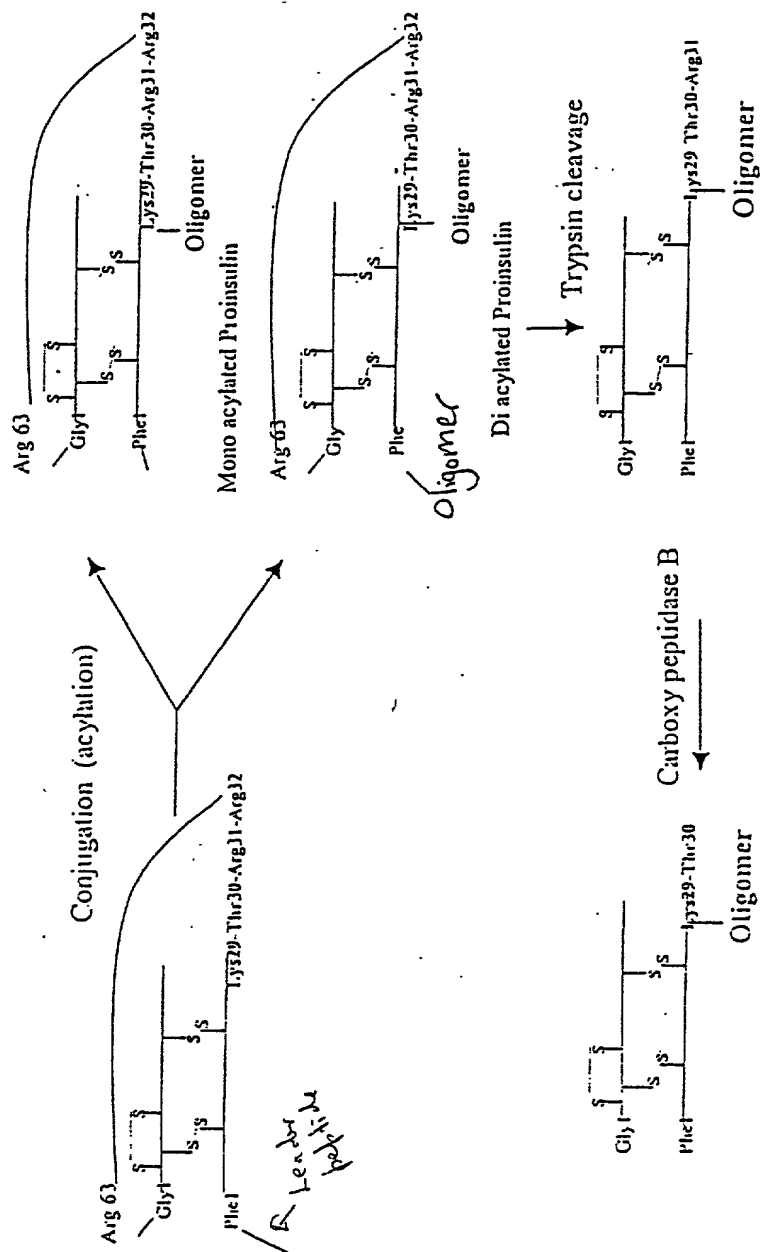


Figure 1

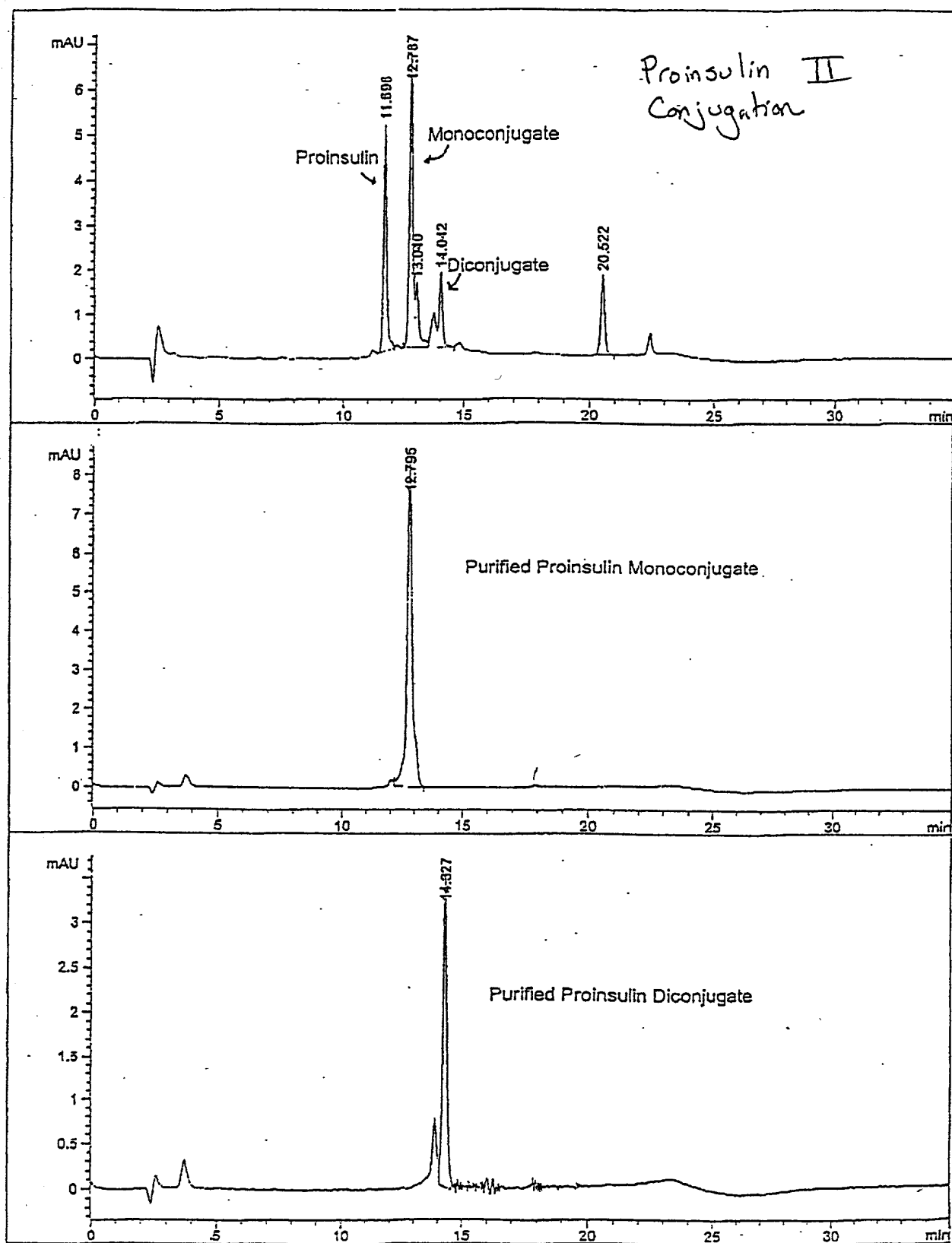


Figure 2

Purified Proinsulin II Monoconjugate

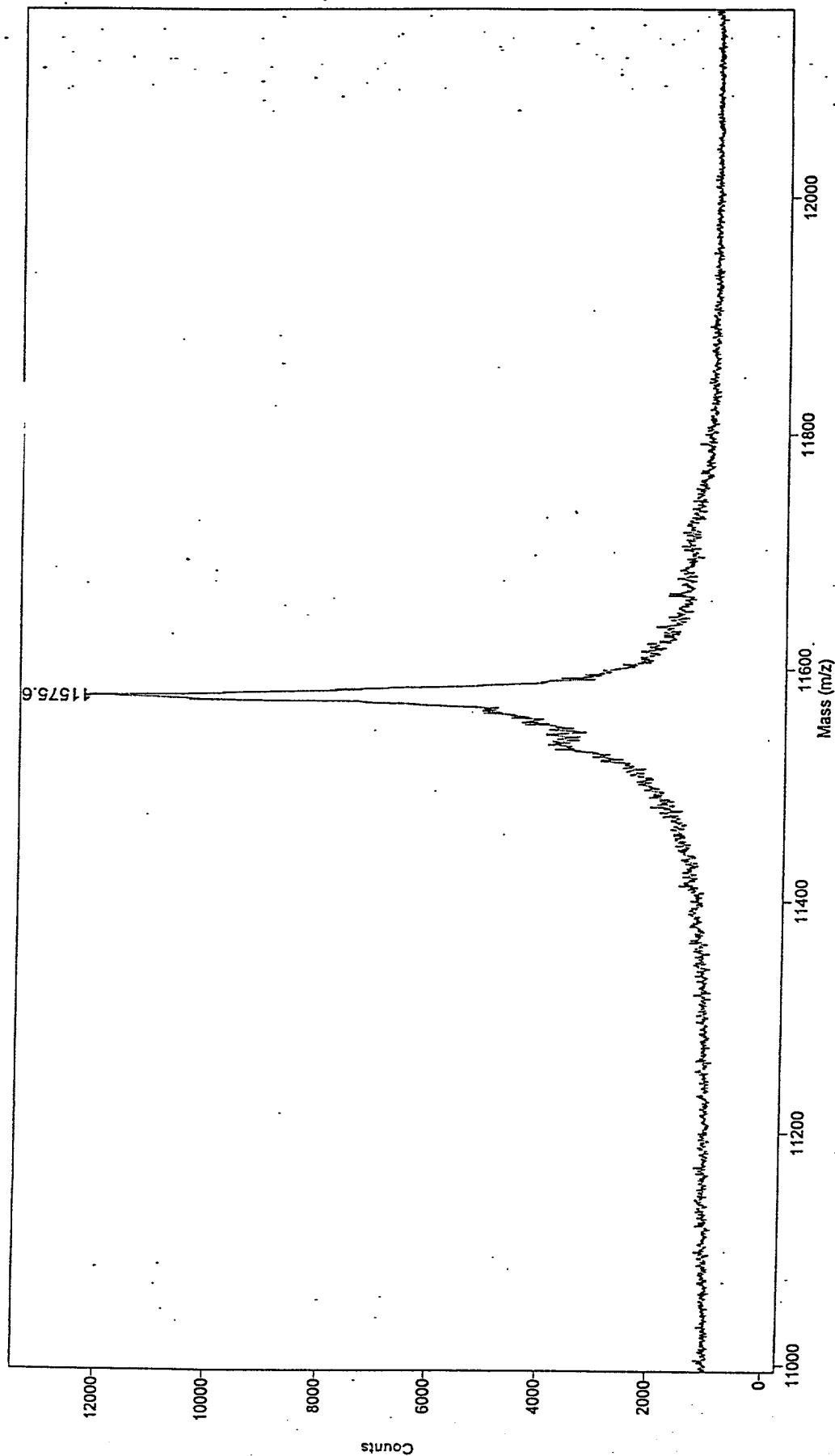


Figure 3

TOF MS
Purified Proinsulin II Diconjugate

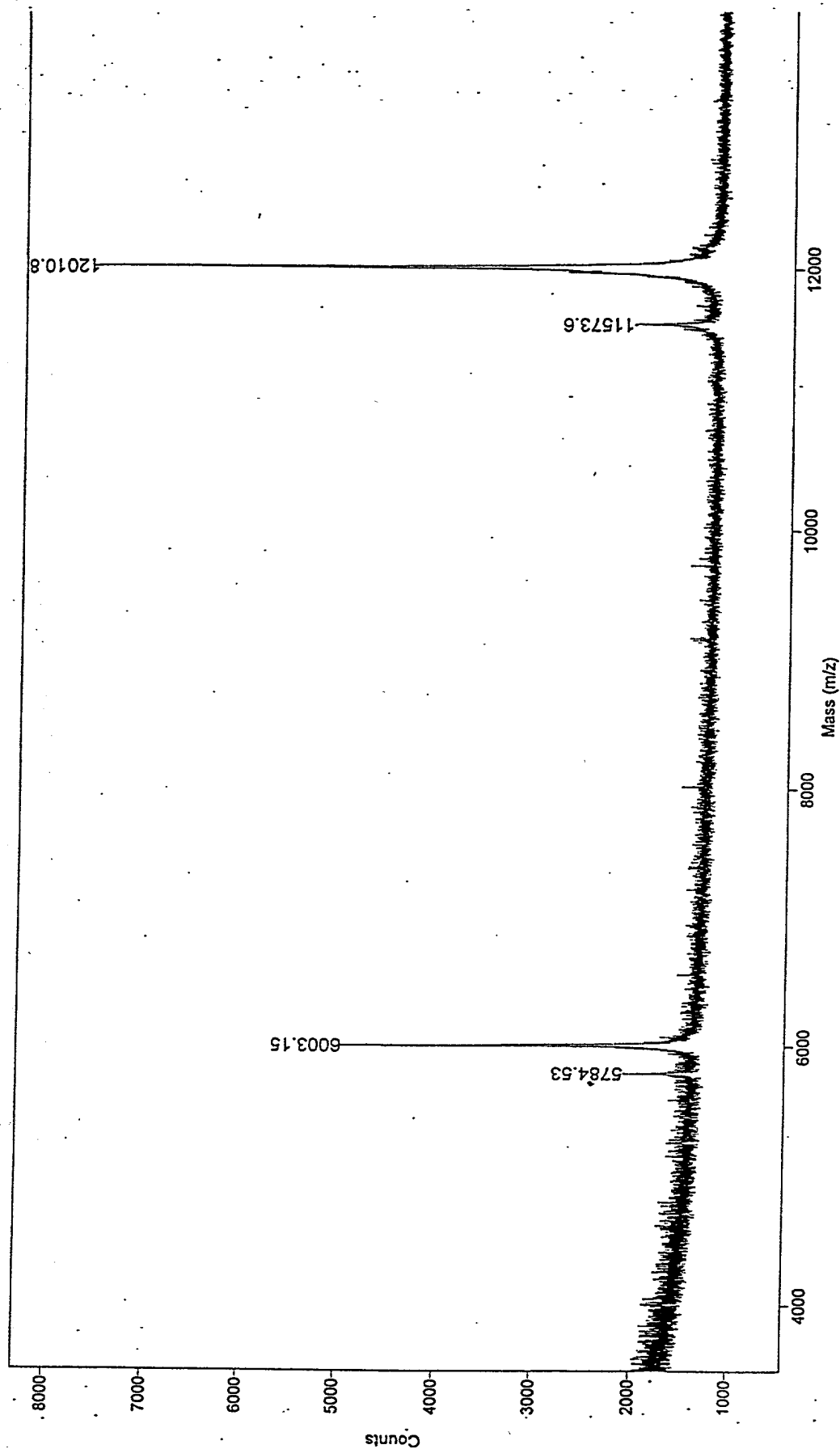


Figure 4

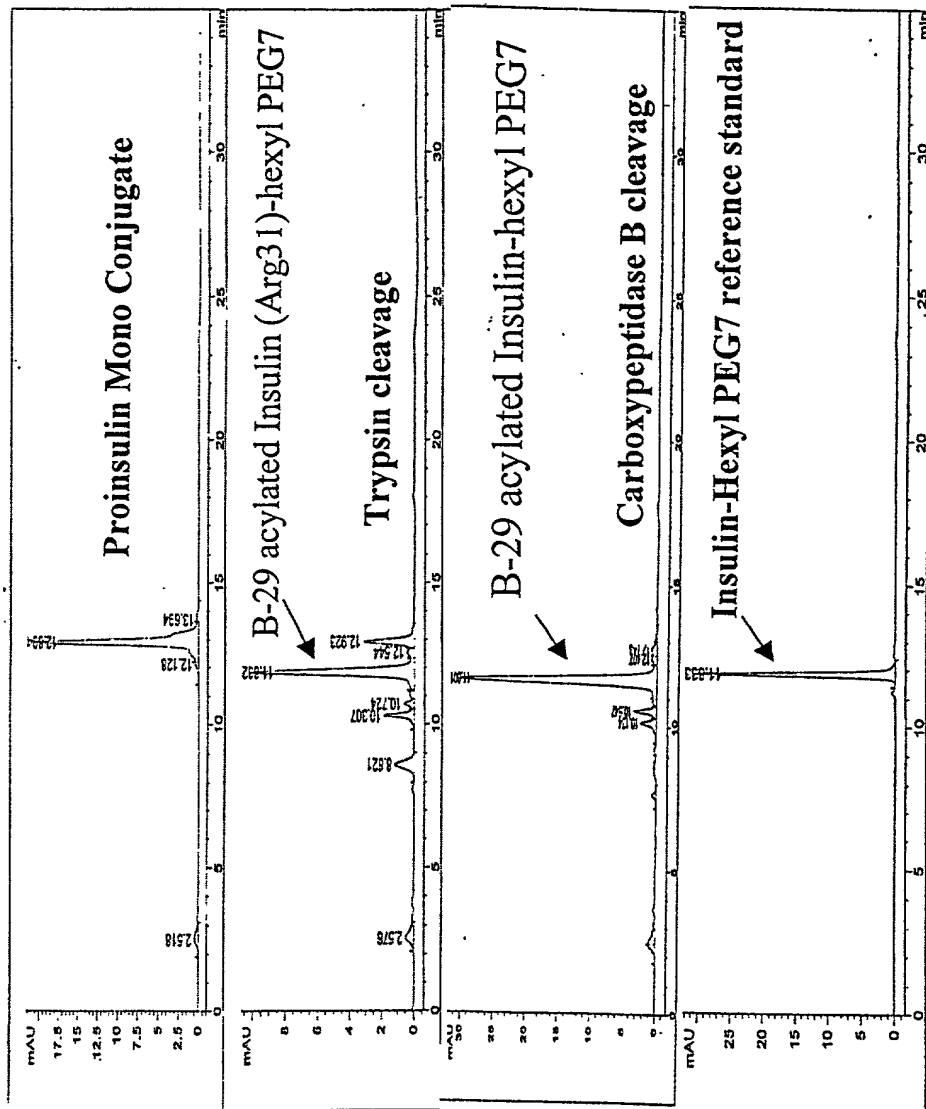


Figure 5

Product of Trypsin Cleavage of Proinsulin II Monoconjugate

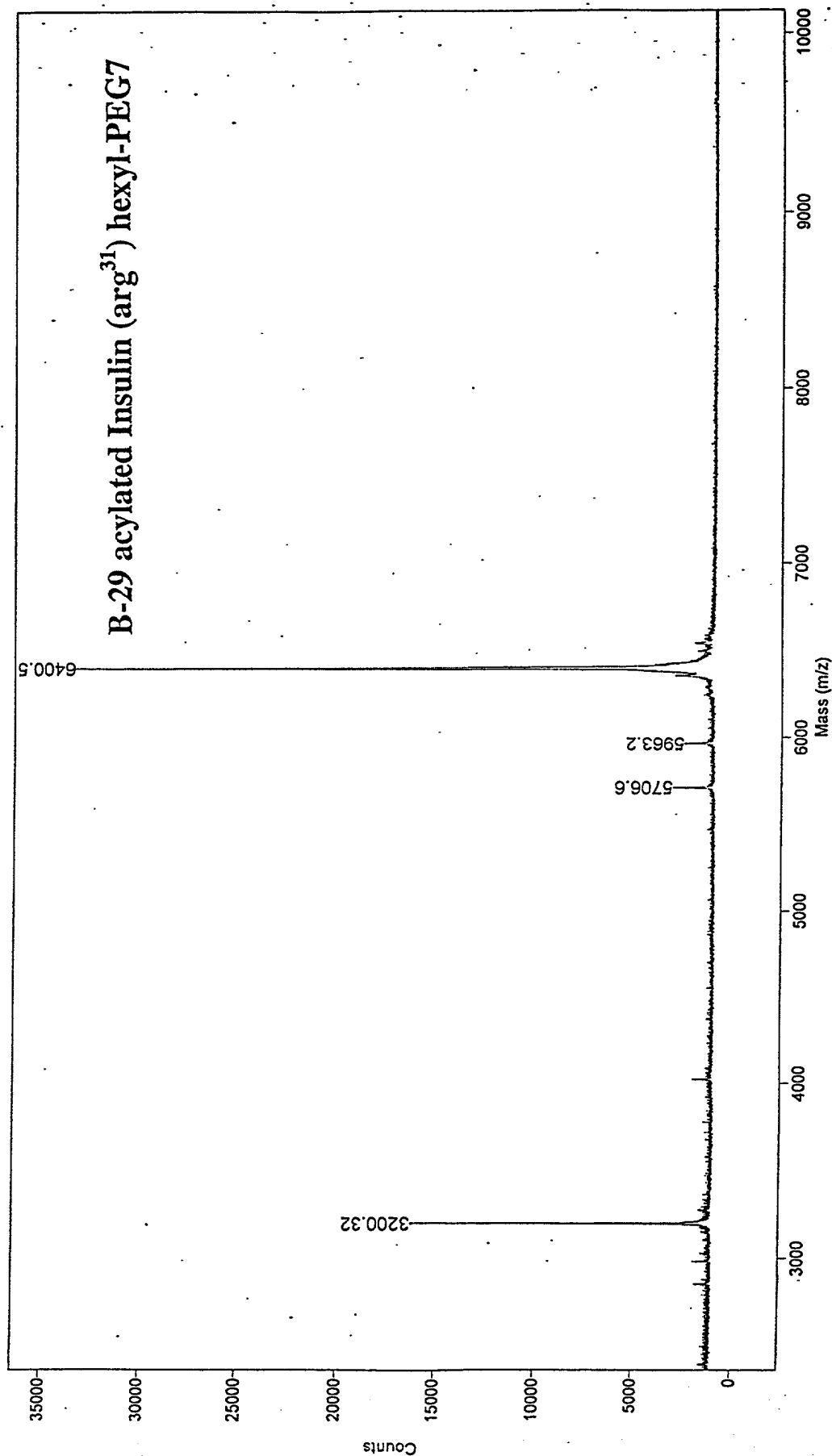


Figure 6

1006744 1230
T0722T 442900T

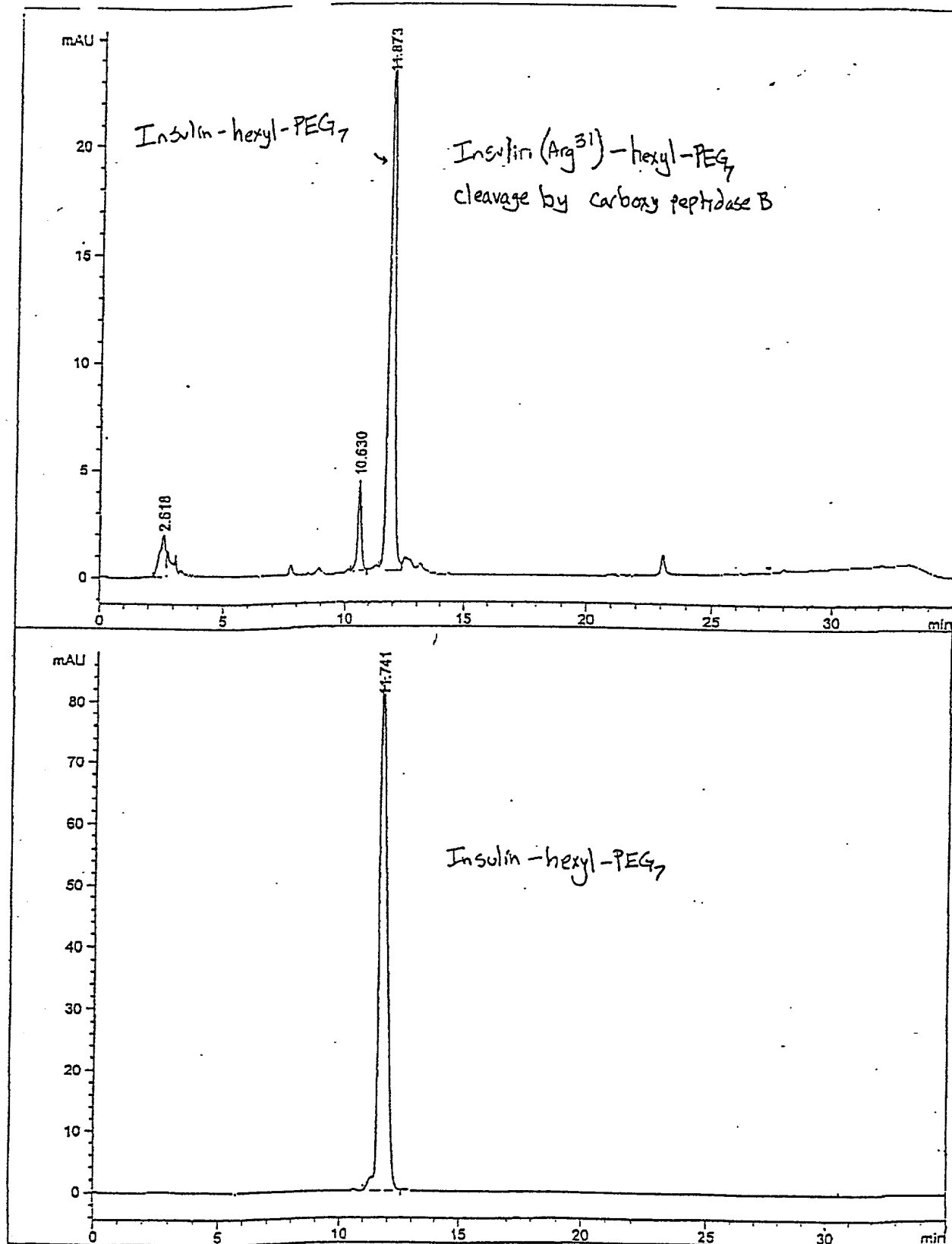


Figure 7

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Product of Carboxypeptidase B Cleavage of B-29 acylated Insulin (arg³¹) hexyl-PEG7

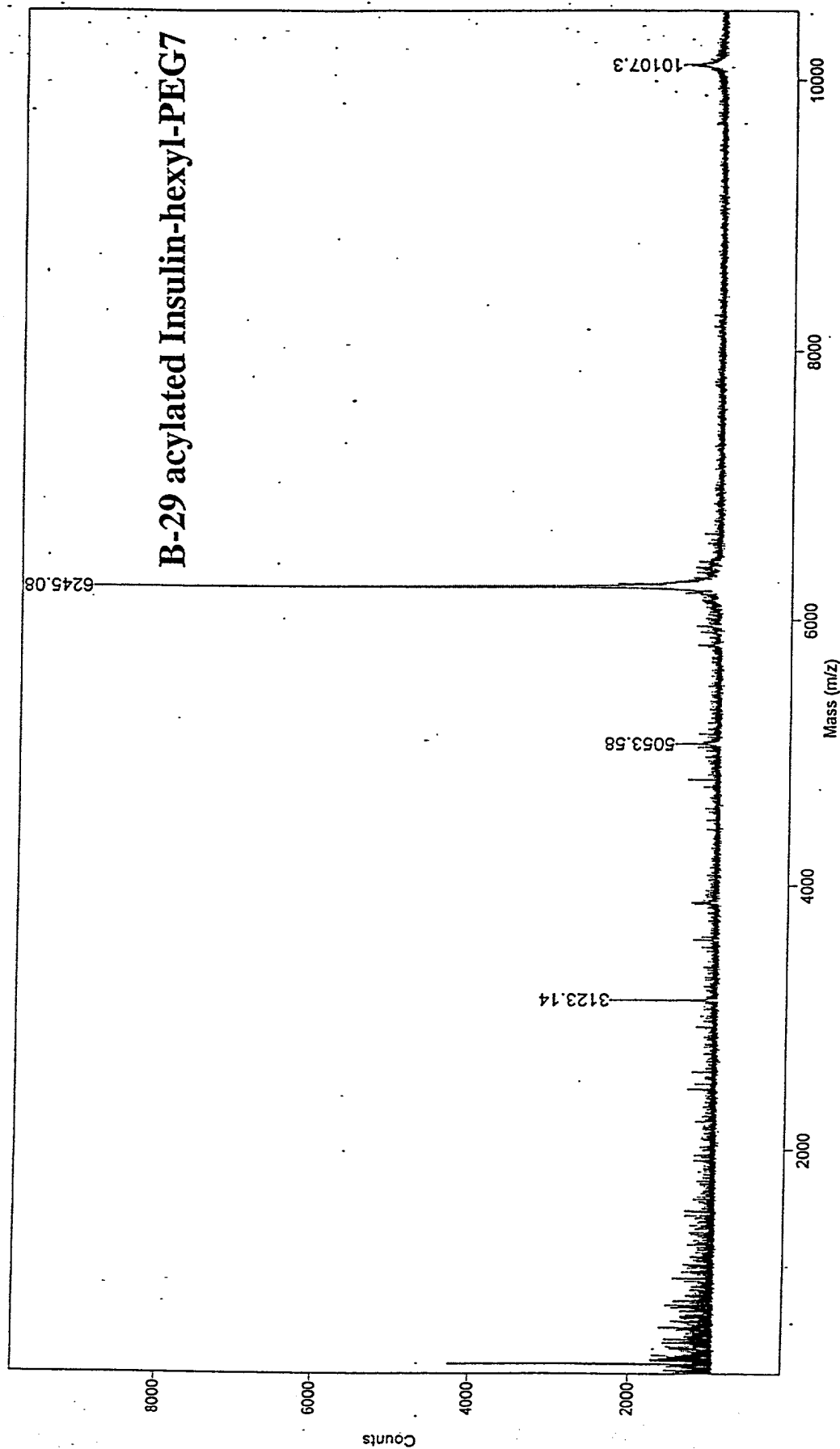


Figure 8

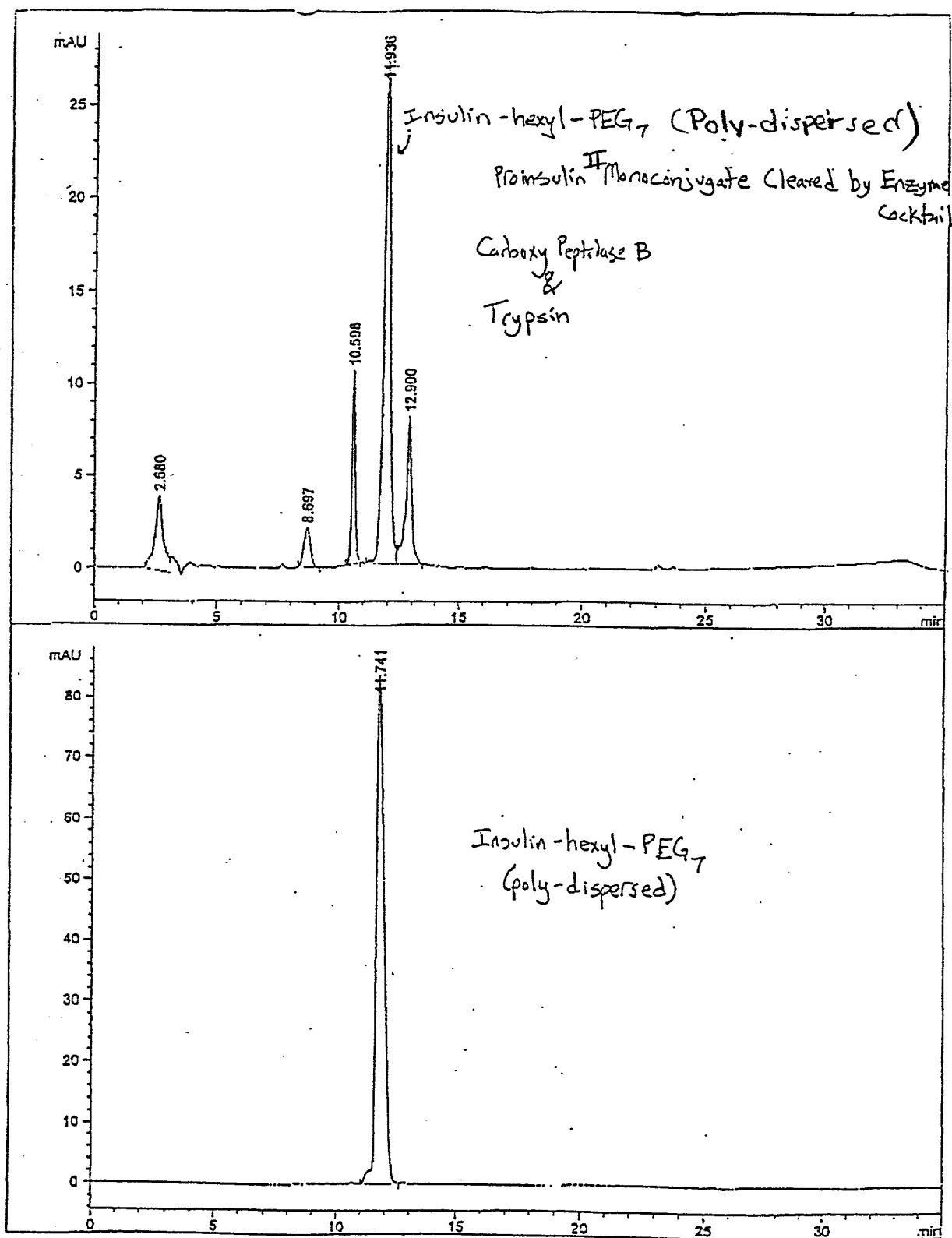


Figure 9

10036744.101

PEG9

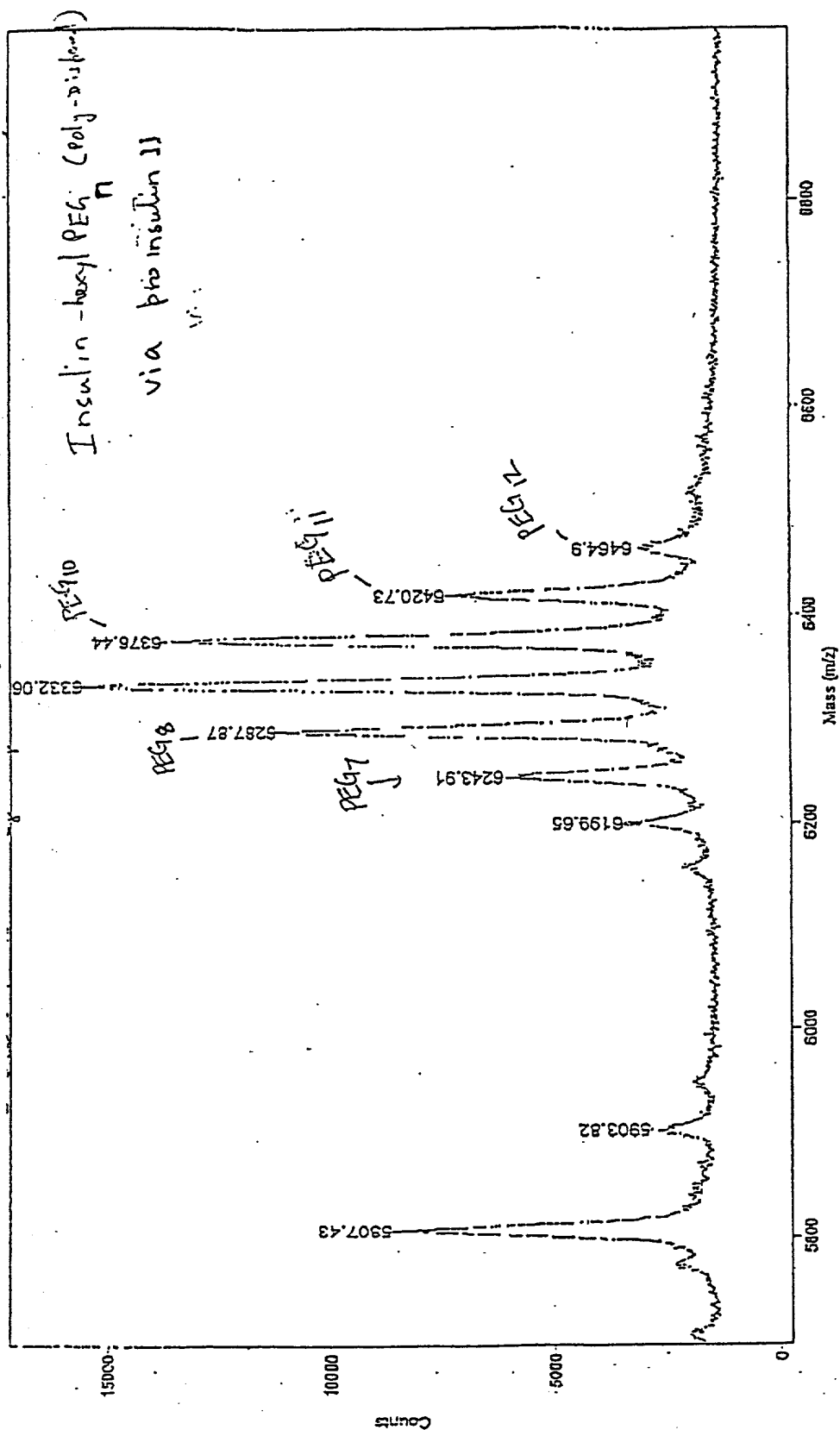


Figure 10

Sample: 16

Positive Ions

Mode: Linear

Method: LMK

HPLC Profile of Production of B-29 acylated Insulin-hexyl PEG7 Via Proinsulin I

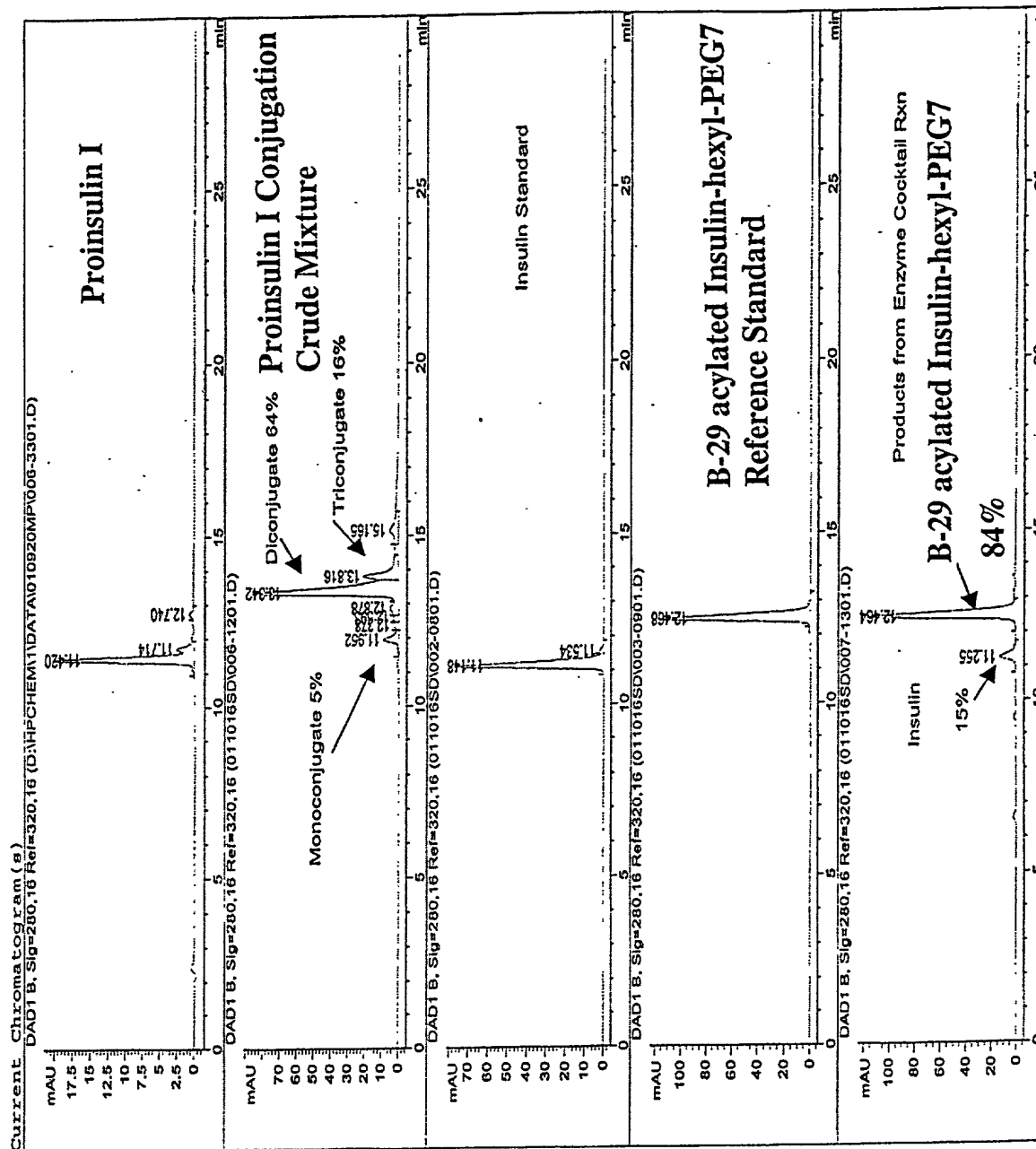
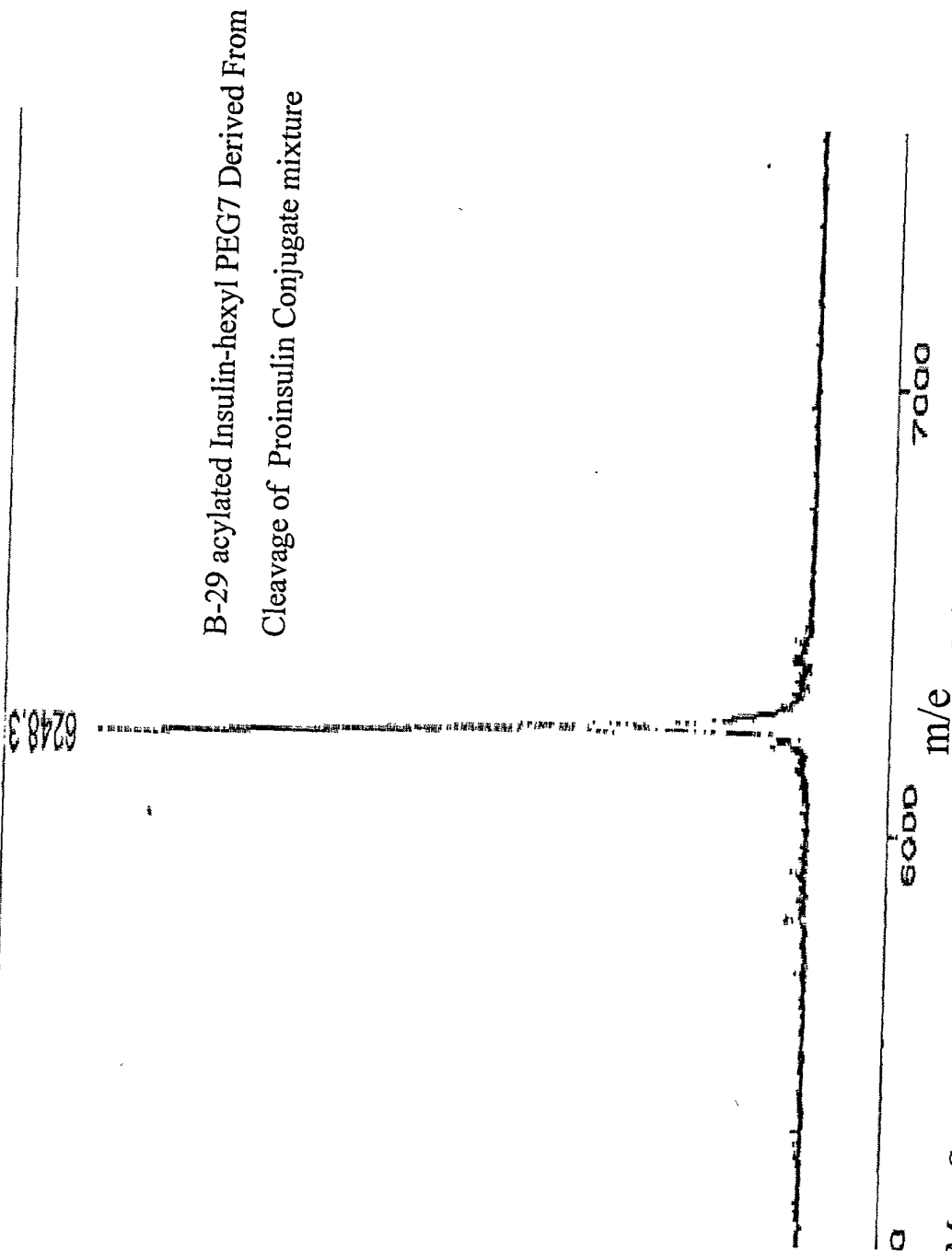


Figure 11

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Mass Spectrum of B-29 Acylated Insulin-hexyl PEG7 via Proinsulin I



MALDI Mass Spec

Figure 12

Mass Spectrum of Insulin via Proinsulin I

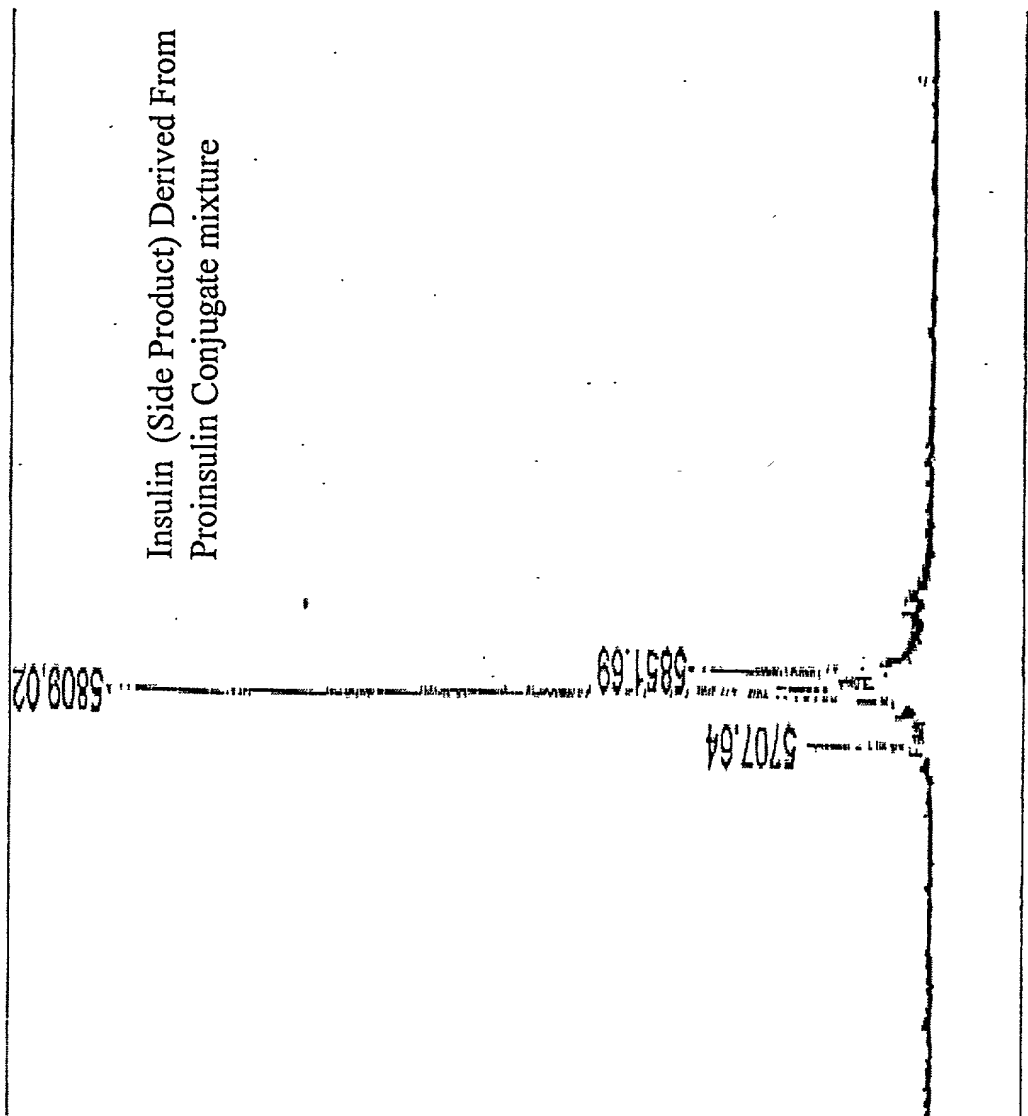


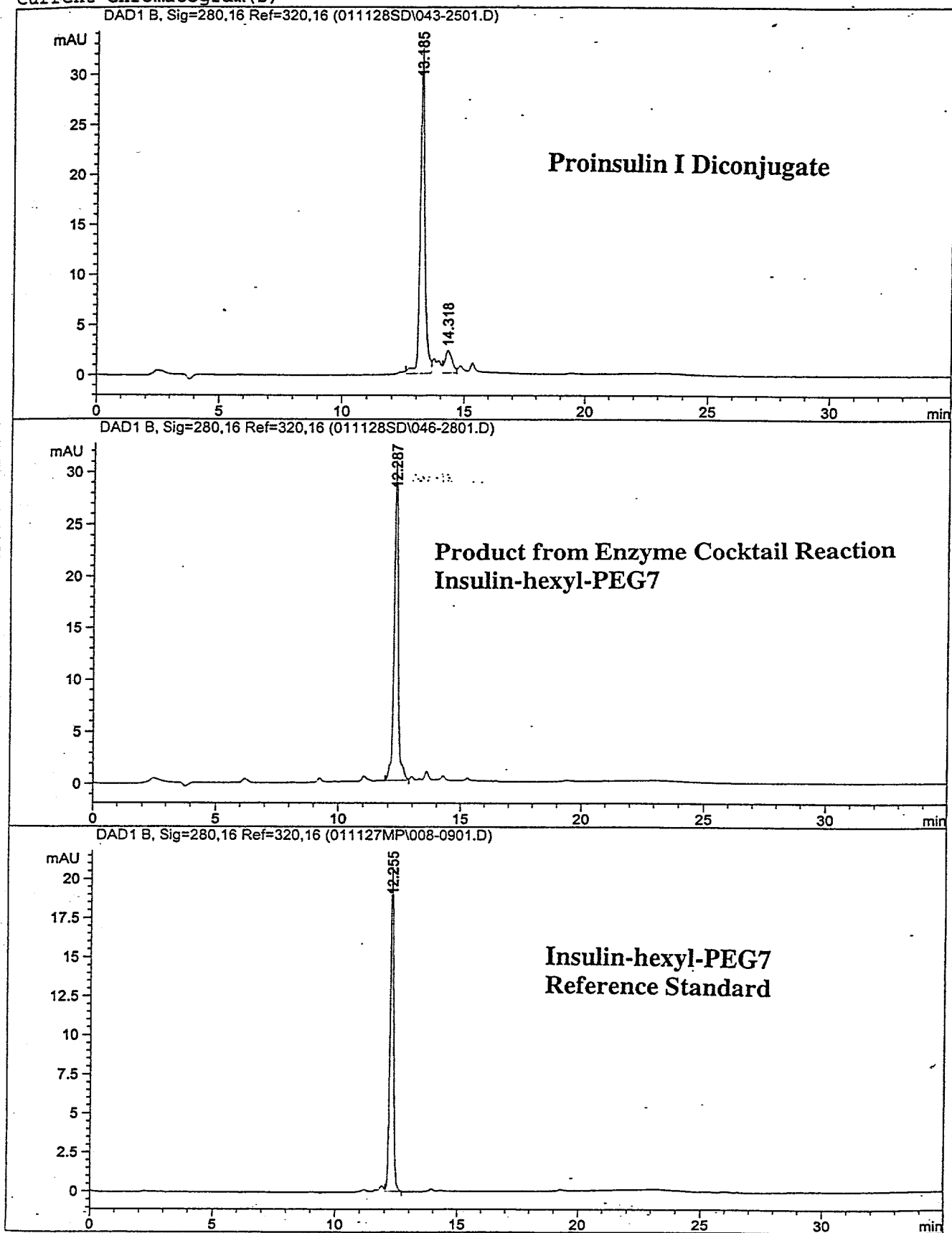
Figure 13

The figure displays three stacked HPLC chromatograms, each showing the separation of a different proinsulin conjugate. The x-axis for all plots represents time in minutes (min), ranging from 0 to 35. The y-axis represents absorbance in milliabsorbance units (mAU).

- Top Chromatogram: Proinsulin I Monoconjugate A**
DAD1 B, Sig=280,16 Ref=320,16 (011001SD\076-1601.D)
The major peak is labeled with a retention time of 12.025 minutes. The y-axis scale ranges from 0 to 2 mAU.
- Middle Chromatogram: Proinsulin I Monoconjugate B**
DAD1 B, Sig=280,16 Ref=320,16 (011001SD\083-2301.D)
The major peak is labeled with a retention time of 12.890 minutes. The y-axis scale ranges from 0 to 1.2 mAU.
- Bottom Chromatogram: Proinsulin I Diconjugate**
DAD1 B, Sig=280,16 Ref=320,16 (011001SD\086-2601.D)
The major peak is labeled with a retention time of 13.603 minutes. The y-axis scale ranges from 0 to 3 mAU.

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Current Chromatogram(s)



Current Chromatogram(s)

